

Access DB# 45728**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: Mark Clark Examiner #: 69462 Date: 9/13/02
 Art Unit: 1616 Phone Number: 308-4550 Serial Number: 10/023,100
 Mail Box and Bldg/Room Location: 2D 11 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): attached

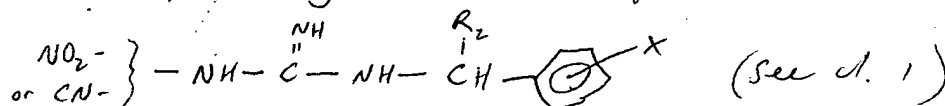
Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Composition/Method of plant defoliation:

composition comprises:

1) Nitro- or Cyano-guanidine compound



2) a secondary herbicide/active agent:

Thidiazuron

Dinron

Ethephon

PPO inhibiting herbicide (see attached)

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STAFF USE ONLY**Type of Search****Vendors and cost where applicable**Searcher: Sheppard NA Sequence (#) _____ STN _____Searcher Phone #: 308-4499 AA Sequence (#) _____ Dialog _____

Searcher Location: _____ Structure (#) _____ Questel/Orbit _____

Date Searcher Picked Up: _____ Bibliographic _____ Dr.Link _____

Date Completed: 9/28/02 Litigation _____ Lexis/Nexis _____

Searcher Prep & Review Time: _____ Fulltext _____ Sequence Systems _____

Clerical Prep Time: _____ Patent Family _____ WWW/Internet _____

Online Time: _____ Other _____ Other (specify) _____

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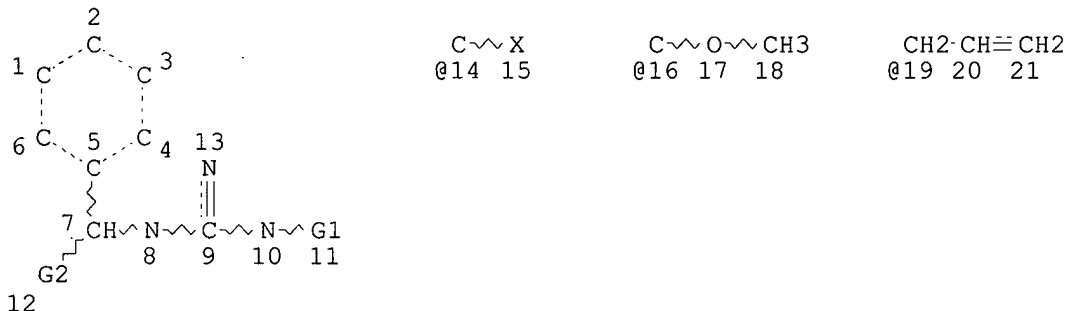
FILE COVERS 1907 - 28 Sep 2002 VOL 137 ISS 14
 FILE LAST UPDATED: 27 Sep 2002 (20020927/ED)

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 L1 STR



VAR G1=NO2/CN
 VAR G2=CH3/ET/14/N-PR/16/19
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE
 L3 92 SEA FILE=REGISTRY SSS FUL L1
 L10 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

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L10 ANSWER 1 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:573666 HCAPLUS

DOCUMENT NUMBER: 133:164010

TITLE: Preparation of caprolactams, piperidinones, and pyrrolidinones as Factor Xa inhibitors in prevention or treatment of thromboses, coronary artery disease, or cerebrovascular disease in mammals

INVENTOR(S): Stein, Philip D.; Bisacchi, Gregory S.; Shi, Yan; O'Connor, Stephen P.; Li, Chi

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 284 pp.

CODEN: PIXXD2

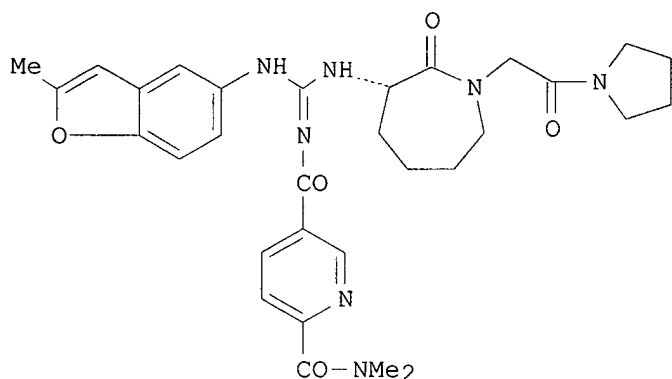
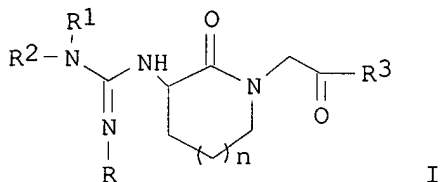
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047207	A1	20000817	WO 2000-US2883	20000202
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6297233	B1	20011002	US 2000-496571	20000202
EP 1156803	A1	20011128	EP 2000-914505	20000202
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRIORITY APPLN. INFO.:			US 1999-119372P	P 19990209
			US 1999-167428P	P 19991124
			WO 2000-US2883	W 20000202
OTHER SOURCE(S):	MARPAT 133:164010			
GI				



AB Title chiral compds. [I; R = CN, CONH₂, COOCH₂CH₃, COC₆H₅, SO₂NH₂, OCH₃, SO₂N(CH₃)₂, SO₂CH₃, arylsulfonyl, heterocyclosulfonyl, (un)substituted Ph, heterocyclyl, heterocyclecarbonyl, alkoxycarbonyl, arylaminocarbonyl; R₁ = H, arylalkyl; R₂ = alkyl, (un)substituted Ph, benzoheterocyclyl, cyclopentyl; R₃ = heterocyclylamino, heterocyclyl, alkoxy, cycloalkylamino, OH; n = 0, 1, 2], pharmaceutically acceptable salts, and stereoisomers are pred. as Factor Xa inhibitors and are useful as anticoagulants (no data). A method for treating cardiovascular diseases assocd. with thromboses is also provided. Thus, the title compd. II was prepd.

IT 288076-32-4P 288076-61-9P 288076-62-0P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of caprolactams as Factor Xa inhibitors in prevention or treatment of thromboses, coronary artery disease, or cerebrovascular disease in mammals)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:252859 HCAPLUS

DOCUMENT NUMBER: 131:111152

TITLE: K⁺ channel blockers: natriuretic potency correlates to vascular ATP-sensitive K⁺ channel blockade

AUTHOR(S): Clark, M. A.; Lawson, J. A.; Ludens, J. H.

CORPORATE SOURCE: Pharmacology, Pharmacia and Upjohn, Inc., Kalamazoo, MI, USA

SOURCE: Methods and Findings in Experimental and Clinical Pharmacology (1999), 21(1), 25-30
CODEN: MFEPDX; ISSN: 0379-0355

PUBLISHER: Prous Science

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Using analogs of known vascular ATP-sensitive K⁺ channel (KATP) blockers, we identified compds. with a wide range of potencies (over 500-fold) in their capacity to block the hypotensive response of 0.2 mg/kg pinacidil in rats. The most potent of these, U-97025E, belongs to a newly disclosed

class of compds., the cyanoguanidines. U-97025E at 0.04 mg/kg blocked 50% of the depressor response induced by 0.2 mg/kg pinacidil. The maximal natriuresis induced by U-97025E (0.4 mg/kg i.v.) increased Na⁺ excretion by approx. 60%. This natriuresis is of the same magnitude as that induced by thiazide without any effect on K⁺ excretion. We found a high degree of correlation between natriuretic potency and the capacity to block the blood pressure lowering effects of pinacidil, both among closely related analogs and dissimilar compds. These findings imply an obligatory rather than incidental relation between vascular KATP blockade and natriuresis. The exact mol. link of the vascular and renal effects remains to be detd.

IT 155342-81-7 232600-75-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(natriuretic potency of potassium channel blockers correlate with vascular ATP-sensitive K channel blockade)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:26451 HCAPLUS

DOCUMENT NUMBER: 128:149199

TITLE: Pharmacological characterization of novel cyanoguanidines as vascular KATP channel blockers

AUTHOR(S): Khan, Sajida A.; Higdon, Nicole R.; Hester, Jackson B.; Meisheri, Kaushik D.

CORPORATE SOURCE: Cardiovascular Pharmacology and Medicinal Chemistry, Pharmacia and Upjohn, Inc., Kalamazoo, MI, USA

SOURCE: Journal of Pharmacology and Experimental Therapeutics (1997), 283(3), 1207-1213

CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: Williams & Wilkins

DOCUMENT TYPE: Journal

LANGUAGE: English

AB KATP blockers derived from cyanoguanidine KATP opener (P1075) chem. were characterized in isolated rabbit mesenteric artery and evaluated functionally by their ability to antagonize maximal relaxation induced by pinacidil (1 μ M) of norepinephrine (5 μ M) contraction. PNU-89692, PNU-97025E and PNU-99963 were identified as KATP blockers with IC₅₀ values of 860, 83 and 18 nM, resp. Studies with selected chiral compds. demonstrated that the (R)-enantiomers were more potent as KATP blockers than the (S)-enantiomers. Further studies demonstrated that PNU-99963 (1) inhibited relaxations by other KATP openers, such as cromakalim (0.5 μ M) and minoxidil sulfate (5 μ M); (2) was more potent than the other known vascular KATP blockers (glyburide and PNU-37883A); and (3) acted as a KATP blocker in isolated rat aorta as well as dog coronary artery. PNU-99963 actions were selective because PNU-99963 (100 nM) was without any inhibitory effect on relaxations induced by forskolin (0.5 μ M), nitroglycerin (1 μ M), D600 (25 or 500 nM) or 15 mM K⁺-induced relaxations of NE contractions in K⁺-free PSS. The discovery of KATP blockers and openers from the same chem. series is a first for the K⁺ channel field. The close structural similarity between P1075 (KATP opener) and PNU-99963 (KATP blocker), stereospecificity of action and potency and selectivity all suggest that these mols. may prove to be valuable tools in understanding the structure and function of the KATP channel complex in vascular smooth muscle.

IT 155342-60-2, PNU 94126 155342-61-3, PNU 94750

155342-66-8, PNU 94158 155342-78-2, PNU 96179

155342-80-6, PNU 96293 172885-03-9, PNU 94563

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(selectivity and stereospecificity of cyanoguanidines as vascular KATP channel blockers)

L10 ANSWER 4 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:685663 HCAPLUS
 DOCUMENT NUMBER: 127:341383
 TITLE: QSAR study on hypotensive activity of analogs of pinacidil
 AUTHOR(S): Liu, Shouping; Huang, Wenlong; Chen, Wenhao; Hua, Weiyi; Peng, Sixun
 CORPORATE SOURCE: Dep. Polymer Material, Nanjing Univ. Science Technology, Nanjing, 210094, Peop. Rep. China
 SOURCE: Zhongguo Yaoke Daxue Xuebao (1997), 28(1), 1-4
 CODEN: ZHYXE9; ISSN: 1000-5048
 PUBLISHER: Zhongguo Yaoke Daxue
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese

AB Eleven mol. mechanics (MM) parameters and 13 quantum chem. parameters of Pinacidil-type cyanoguanidine, thioureas and imine-derived compds. were calcd. by MM2 method and CNDD/2 method resp. Two significant correlation equations between the vasodilator activity of these compds. and the structural parameters mentioned above were established by step-wise regression analyses. The QSAR equations show that the vasodilator activity of these compds. increases with the increase of dipole moment (DM), ratio value (PS) of solvent-accessible hydrophobic surface area of mol. to the hydrophilic, and of abs. value of electronic charge of pyridenenitrogen. The results also suggest that the vasodilator activity of these compds. is mainly dependent upon the distribution of electronic charge and the hydrophobicity of mols.

IT 172885-03-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (QSAR study on hypotensive activity of analogs of pinacidil)

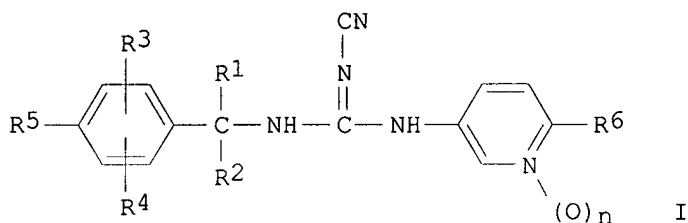
L10 ANSWER 5 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:632705 HCAPLUS
 DOCUMENT NUMBER: 127:288180
 TITLE: Cyanoguanidines as potassium-channel blockers useful for the treatment of cardiovascular disorders and for diuretics, and preparation thereof
 INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.
 PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
 SOURCE: U.S., 8 pp., Cont.-in-part of U.S. Ser. No. 188,969, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5668157	A	19970916	US 1996-666502	19960625
WO 9520579	A1	19950803	WO 1995-US24	19950109
W:	AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US			
RW:	KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 1994-188969 19940128
 WO 1995-US24 19950109

OTHER SOURCE(S): MARPAT 127:288180
 GI



AB Cyanoguanidine compds. I (R1 = H, Me; R2 = C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-5 cycloalkyl, C3-5 cycloalkenyl, hydroxymethyl, methoxy-C1-5 alkyl, or R1 and R2 are combined to form C3-6 carbocyclic ring; R3, R4 = H, C1-4 alkyl, F, Cl, Br, I, CF3; R5 = H, F, Cl; R6 = H, NH2, NHCH3, NHC2H5, NHCH(CH3)2, N(CH3)2, etc.; n = 0, 1), and pharmaceutically acceptable acid addn. salts thereof, are disclosed. I are potassium channel blockers useful in the treatment of cardiovascular disorders, e.g. congestive heart failure and hypertension, and as diuretics. Prepn. of selected I is described.

IT **170793-38-1P 170793-39-2P 170793-41-6P**
170793-42-7P 170793-43-8P 170793-44-9P
170793-45-0P 170793-47-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cyanoguanidines as potassium-channel blockers useful for the treatment of cardiovascular disorders and for diuretics, and prepn. thereof)

L10 ANSWER 6 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:657033 HCAPLUS

DOCUMENT NUMBER: 125:300837

TITLE: Preparation of N-(3-pyridyl)-N''-cyanoguanidines as potassium channel blockers

INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.

PATENT ASSIGNEE(S): Upjohn Co., USA

SOURCE: U.S., 11 pp., Cont.-in-part of U.S. Ser. No. 929,795, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

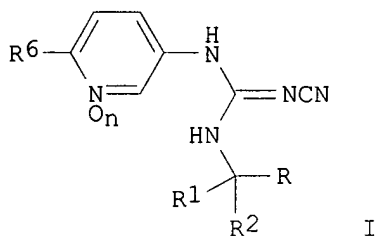
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5567722	A	19961022	US 1995-384562	19950206
AT 158279	E	19971015	AT 1993-917262	19930721
ES 2107049	T3	19971116	ES 1993-917262	19930721
ZA 9305619	A	19950203	ZA 1993-5619	19930803
IL 106641	A1	20010111	IL 1993-106641	19930810
CN 1090575	A	19940810	CN 1993-117781	19930813
CN 1039997	B	19980930		
US 5633374	A	19970527	US 1995-553308	19951120
PRIORITY APPLN. INFO.:			US 1992-929795	B2 19920813
			WO 1993-US11332	W 19931126

OTHER SOURCE(S): MARPAT 125:300837

GI



AB Title compds. [I; R = (un)substituted Ph; R1 = H or Me; R2 = (cyclo)alk(en)yl, CH₂OH, methoxyalkyl, etc.; R1R2 = alkylene; R6 = H, (di)(alkyl)amino, etc.; n = 0 or 1] were prepd. Thus, 3-aminopyridine was aminated with NCN:C(OPh)₂ and the product aminated with 3-ClC₆H₄CH₂EtNH₂ to give I (R = C₆H₄Cl-3, R1 = R6 = H, R2 = Et, n = 0). Data for in vivo natriuretic and vascular potassium channel antagonist activities of I were given.

IT 155342-60-2P 155342-61-3P 155342-64-6P
 155342-66-8P 155342-72-6P 155342-73-7P
 155342-74-8P 155342-78-2P 155342-79-3P
 155342-80-6P 155342-81-7P 155342-82-8P
 155342-83-9P 155342-84-0P 155342-86-2P
 158942-81-5P 158942-82-6P 158942-86-0P
 158942-87-1P 158942-88-2P 158942-89-3P
 158942-91-7P 158942-92-8P 158942-93-9P
 158942-94-0P 158942-96-2P 158942-97-3P
 158943-03-4P 158943-04-5P 158943-06-7P
 158943-07-8P 158943-08-9P 158943-09-0P
 158943-10-3P 158943-11-4P 158943-12-5P
 158943-13-6P 158943-14-7P 172885-03-9P
 183119-59-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of N-(3-pyridyl)-N''-cyanoguanidines as potassium channel blockers)

IT 158943-20-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of N-(3-pyridyl)-N''-cyanoguanidines as potassium channel blockers)

L10 ANSWER 7 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:982074 HCAPLUS

DOCUMENT NUMBER: 124:105598

TITLE: Synthesis and hypotensive activity of some thiourea/cyanoguanidine analogs of pinacidil

AUTHOR(S): Liu, Shouping; Xu, Guoyou; Chen, Wenyi; Hua, Weiyi; Peng, Sixun

CORPORATE SOURCE: Department of Medical Chemistry, China Pharmaceutical University, Nanjing, 210009, Peop. Rep. China

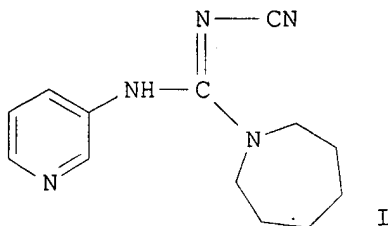
SOURCE: Zhongguo Yaoke Daxue Xuebao (1995), 26(4), 193-8
 CODEN: ZHYXE9; ISSN: 1000-5048

PUBLISHER: Zhongguo Yaoke Daxue

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

GI



AB Four thiourea analogs and 8 cyanoguanidine analogs of pinacidil were designed and synthesized for novel antihypertensive agents. The chem. structures of all the new compds. were identified by elemental anal., IR, MS and HNMR. All the compds. possessed vasodilatory and hypotensive activity in different degrees. Among these compds., I was the most potent one.

IT **172885-03-9P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and hypotensive activity of thiourea/cyanoguanidine analogs of pinacidil)

L10 ANSWER 8 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:946840 HCAPLUS

DOCUMENT NUMBER: 124:8633

TITLE: Preparation of pyridinylcyanoguanidines as potassium channel blockers.

INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.

PATENT ASSIGNEE(S): Upjohn Co., USA

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

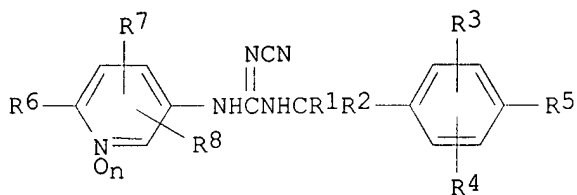
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9520579	A1	19950803	WO 1995-US24	19950109
W:	AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US			
RW:	KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
CA 2179036	AA	19950803	CA 1995-2179036	19950109
AU 9515566	A1	19950815	AU 1995-15566	19950109
EP 741708	A1	19961113	EP 1995-907285	19950109
EP 741708	B1	19980520		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE			
JP 09508382	T2	19970826	JP 1995-520050	19950109
AT 166343	E	19980615	AT 1995-907285	19950109
ES 2116726	T3	19980716	ES 1995-907285	19950109
US 5668157	A	19970916	US 1996-666502	19960625
PRIORITY APPLN. INFO.:			US 1994-188969	19940128
			WO 1995-US24	19950109

OTHER SOURCE(S): MARPAT 124:8633

GI



AB Title compds. [I; R1 = H, Me; R2 = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, CH₂OH, methoxyalkyl; R1R2 = atoms to form a C3-6 carboxylic ring; R3, R4 = H, alkyl, F, Cl, Br, iodo, CF₃; R5 = H, F, Cl; R6 = H, NH₂, NHCH₃, NH₂t, NHCHMe₂, NMe₂, NEt₂, NH(CH₂)_mOalkyl, NHC(O)alkyl, F, Cl, Br, alkyl, NH(CH₂)_mF, 1-imidazolyl, NHOalkyl, NHOH, NHSO₂alkyl, SH, Salkyl, NHC(O)Oalkyl, NHC(O)NHalkyl, NHSO₂NHalkyl, NHSO₂N(alkyl)₂, amino acid amide; R7 = alkyl, NH₂, NHalkyl, N(alkyl)₂, CF₃, F, Cl, Br, iodo, alkoxy, OH, COOH, alkoxy carbonyl, CONH₂, CONHalkyl, alkyl carbonyl, CON(alkyl)₂, SO₂NH₂, SO₂NHalkyl, CN, SO₂N(alkyl)₂, NHCOalkyl, NHCONHalkyl, NHCON(alkyl)₂, NHSO₂NHalkyl, NHSO₂N(alkyl)₂, SH, alkylthio, NO₂, SO₂alkyl, NHCO₂alkyl, amino acid amide, H; R8 = H, alkyl, NH₂, NHalkyl, NMe₂, NEt₂, F, Cl, Br, alkoxy, OH; m = 2, 3; n = 0, 1; with provisos], were prep'd. 2-Chloro-3,5-diaminopyridine and diphenylcyanocarbonimidate were stirred 96 h in ethylene glycol di-Me ether to give N-(5-amino-6-chloro-3-pyridyl)-N'-cyano-O-phenylisourea. The latter was refluxed with 1-phenylcyclobutylamine and N-methylmorpholine in dioxane to give N-(5-amino-6-chloro-3-pyridyl)-N''-cyano-N'-(1-phenylcyclobutyl)guanidine. This at 0.1 .mu.M gave 90% K channel antagonism in rat mesenteric artery preps.

IT 170793-38-1P 170793-39-2P 170793-41-6P
170793-42-7P 170793-43-8P 170793-44-9P
170793-45-0P 170793-47-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyridinylcyanoguanidines as potassium channel blockers)

L10 ANSWER 9 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:680546 HCAPLUS

DOCUMENT NUMBER: 121:280546

TITLE: Preparation of pyridinylcyanoguanidines as potassium channel blockers

INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.

PATENT ASSIGNEE(S): Upjohn Co., USA

SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404500	A1	19940303	WO 1993-US6752	19930721
W:	AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,			

BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

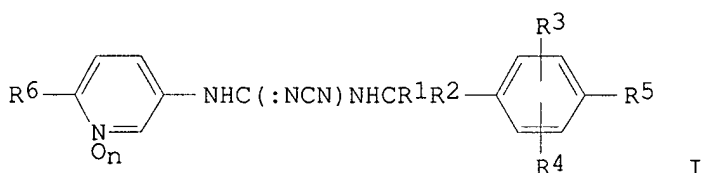
EP 655057	A1	19950531	EP 1993-917262	19930721
EP 655057	B1	19970917		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

JP 08500111	T2	19960109	JP 1993-506258	19930721
AT 158279	E	19971015	AT 1993-917262	19930721
ES 2107049	T3	19971116	ES 1993-917262	19930721
ZA 9305619	A	19950203	ZA 1993-5619	19930803
IL 106641	A1	20010111	IL 1993-106641	19930810
CN 1090575	A	19940810	CN 1993-117781	19930813
CN 1039997	B	19980930		
US 5633374	A	19970527	US 1995-553308	19951120

PRIORITY APPLN. INFO.: US 1992-929795 A2 19920813
WO 1993-US6752 W 19930721
WO 1993-US11332 W 19931126

OTHER SOURCE(S): MARPAT 121:280546
GI



AB Title compds. I (R1 = H, Me; R2 = C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-5 cycloalkyl, C3-5 cycloalkenyl, HOCH2, MeO-C1-5 alkyl, R1R2 = carbocyclyl; R3, R4 = H, C1-4 alkyl, halo, F3C; R5 = H, Cl, F; R6 = H, (substituted) amino; n = 0, 1) and a salt thereof, are prepd. I are also useful as diuretics. N-3-pyridyl-N'-cyano-O-phenylisourea (prepn. given), (R)-.alpha.-methylbenzylamine, and Me2CHOH were refluxed to give (R)-I (R1 = R3-6 = H, R3 = Me, n = 0). I have good K channel antagonist activity as well as natriuretic activity.

IT **158943-20-5P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, in prepn. of potassium channel blockers and diuretics)

IT **155342-60-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as potassium channel blocker)

IT **155342-61-3P 155342-64-6P 155342-66-8P**

155342-72-6P 155342-73-7P 155342-74-8P

155342-78-2P 155342-79-3P 155342-80-6P

155342-81-7P 155342-82-8P 155342-83-9P

155342-84-0P 155342-86-2P 155418-81-8P

158942-81-5P 158942-82-6P 158942-86-0P

158942-87-1P 158942-88-2P 158942-89-3P

158942-91-7P 158942-92-8P 158942-93-9P

158942-94-0P 158942-96-2P 158942-97-3P

158943-03-4P 158943-04-5P 158943-05-6P

158943-06-7P 158943-07-8P 158943-08-9P

158943-09-0P 158943-10-3P 158943-11-4P

158943-12-5P 158943-13-6P 158943-14-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as potassium channel blocker and diuretic)

L10 ANSWER 10 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:323269 HCAPLUS

DOCUMENT NUMBER: 120:323269

TITLE: Preparation of N-phenyl(cyclo)alkyl-N'-3-pyridylcyanoguanidines and analog as potassium channel blockers

INVENTOR(S): Humphrey, Stephen J.; Meisheri, Kaushik D.; Ludens, James H.; Hester, Jackson B., Jr.

PATENT ASSIGNEE(S): Upjohn Co., USA

SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2

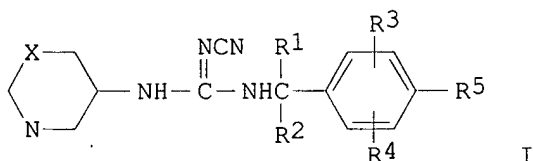
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404499	A1	19940303	WO 1993-US5458	19930611
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AT 158279	E	19971015	AT 1993-917262	19930721
ES 2107049	T3	19971116	ES 1993-917262	19930721
ZA 9305619	A	19950203	ZA 1993-5619	19930803
IL 106641	A1	20010111	IL 1993-106641	19930810
CN 1090575	A	19940810	CN 1993-117781	19930813
CN 1039997	B	19980930		
CA 2161325	AA	19941222	CA 1993-2161325	19931126
WO 9429280	A1	19941222	WO 1993-US11332	19931126
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9510303	A1	19950103	AU 1995-10303	19931126
AU 673785	B2	19961121		
EP 703904	A1	19960403	EP 1994-904387	19931126
EP 703904	B1	19990224		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08511264	T2	19961126	JP 1993-501716	19931126
AT 176905	E	19990315	AT 1994-904387	19931126
ES 2127918	T3	19990501	ES 1994-904387	19931126
US 5633374	A	19970527	US 1995-553308	19951120
PRIORITY APPLN. INFO.:				
			US 1992-929795	A1 19920813
			WO 1993-US5458	A 19930611
			WO 1993-US11332	W 19931126
OTHER SOURCE(S): MARPAT 120:323269				
GI				



AB Title compds. I [X = CH, N; R1 = H, Me; R2 = C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-5 cycloalkyl, C1-5 hydroxyalkyl, methoxy-C1-5 alkyl; or R1R2C are combined to form a C3-C6 carbocyclic ring; R3 and R4 each independently = H, C1-4 alkyl, F, Cl, Br or CF3; R5 = H, F or Cl], and

pharmaceutically acceptable acid addn. salts are prepd. as potassium channel blockers, useful in the treatment of cardiovascular disorders, e.g., congestive heart failure and hypertension. Thus, successive reactions of two amines with di-Ph cyanocarbonimidate in Et₂O afforded compds. I in most cases. Other solvents or reaction conditions were required in other cases, e.g., for X = N in compds. I. Compds. I have good potassium channel antagonist activity as well as natriuretic activity. Compd. I (R₁ = H, R₂ = Me, Z = Ph) exhibited 88.9 ± 11.2(2)% inhibition RMA (isolated rabbit mesenteric artery) K⁺ channel antagonism at 2.5 µM. The cyanoguanidines of this invention, unlike other cyanoguanidines, block potassium channel conduction in vascular smooth muscle and in ATP-sensitive potassium channels in apical membranes of the kidney.

IT 155342-60-2P 155342-61-3P 155342-62-4P
 155342-64-6P 155342-66-8P 155342-72-6P
 155342-73-7P 155342-74-8P 155342-78-2P
 155342-79-3P 155342-80-6P 155342-81-7P
 155342-82-8P 155342-83-9P 155342-84-0P
 155342-86-2P 155418-81-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as potassium channel blocker and natriuretic)

L10 ANSWER 11 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:511154 HCAPLUS

DOCUMENT NUMBER: 119:111154

TITLE: Substituted nitroguanidines provide cytokinin activity during in vitro cultivation of plant tissues

AUTHOR(S): Rodaway, Shirley

CORPORATE SOURCE: Agric. Res. Div., American Cyanamid Co., Princeton, NJ, 08543-0400, USA

SOURCE: Plant Cell Reports (1993), 12(5), 273-7

CODEN: PCRPD8; ISSN: 0721-7714

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Synthetic nitroguanidine derivs. can be used as alternatives to the traditional adenine-contg. cytokinins used in plant tissue culture. Nitroguanidine derivs. (NG) mimicked the typical activity of two std. cytokinins, 6-benzylaminopurine (BAP) and 2-isopentenyladenine (2iP) in the soybean callus (Glycine max) growth bioassay. NGs caused unanticipated responses as well, as demonstrated in three lines of tobacco (Nicotiana tabacum), when the auxin concn. was reduced from the std. concn. of 2 µg/mL NAA, to much lower concns. of 0.01 µg/mL NAA or 0.02 µg/mL IAA. At the low auxin concns., kinetin lost the ability to promote either growth or differentiation, while the NG cytokinins were fully able to promote both. NGs promoted growth and differentiation in the presence of 0.01 µg/mL NAA in a newly initiated, totipotent line of Coker 319 tobacco. NGs plus 0.02 µg/mL IAA also promoted callus growth in a cytokinin-habituated tobacco line, Havana 425-CH. NGs stimulated the outgrowth of healthy callus from aged callus that had been allowed to deteriorate through lack of subculture. Upon transfer of aged NTP callus to fresh media with NGs and 0.02 µg/mL IAA, healthy cell cultures were rapidly produced. In all three cases, kinetin was ineffective at the low auxin concns. The NGs are therefore cytokinins, with the addnl. possibility of reducing the level of auxin required for their activity to be expressed.

IT 93070-74-7, 1-(.alpha.-Ethylbenzyl)-3-nitroguanidine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (cytokinin activity of)

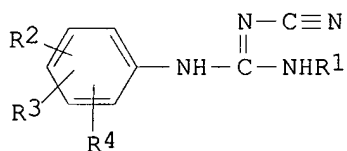
L10 ANSWER 12 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:514834 HCAPLUS

DOCUMENT NUMBER: 113:114834

TITLE: Preparation of arylcyanoguanidines as potassium channel activators
 INVENTOR(S): Atwal, Karnail S.; McCullough, John R.; Grover, Gary J.
 PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc., USA
 SOURCE: Eur. Pat. Appl., 31 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 354553	A2	19900214	EP 1989-114729	19890809
EP 354553	A3	19900411		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 8905200	A	19900530	ZA 1989-5200	19890707
AU 8938959	A1	19900215	AU 1989-38959	19890725
AU 620424	B2	19920220		
DK 8903889	A	19900210	DK 1989-3889	19890808
HU 51247	A2	19900428	HU 1989-4067	19890808
HU 205070	B	19920330		
JP 02091057	A2	19900330	JP 1989-206582	19890809
AU 9190075	A1	19920213	AU 1991-90075	19911230
AU 640844	B2	19930902		
PRIORITY APPLN. INFO.:		US 1988-230209	A	19880809
OTHER SOURCE(S):		MARPAT 113:114834		
GI				



I

AB The title compds. I [R1 = alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, aryl, etc.; R2 = cyano, NO₂, COR₅, CO₂R₅, etc.; R3, R4 = H, alkyl, alkenyl, alkynyl, haloalkyl, halo, alkoxy, groups defined for R2, etc.; or R2 and R3 taken together are a group which forms a ring with the two carbon atoms to which they are attached, which group is selected from S(O)_m(CH₂)_nCH₂, COX(CH₂)_pCH₂, COCH₂(CH₂)_pX, wherein m = 1, 2; n = 3-5; p = 2-4; X = O, NR₅, CH₂; R₅ = H, groups defined for R1] and their tautomers, useful as potassium channel activators (no data), are prepd. The use of potassium channel activators (e.g., I, pinacidil, cromakalim, nicorandil, etc.) for the prepn. of drugs for the treatment of fibrillation of the heart is also claimed. A mixt. of Me N-cyano-N'-(4-nitrophenyl)carbamidothioate Me sulfate and 2-amino-3,3-dimethylbutane in isopropanol was heated at 90.degree. overnight to give, after workup and purifn., N''-cyano-N-(4-nitrophenyl)-N'-(1,2,2-trimethylpropyl)guanidine. Pinacidil at 0.9 .mu.g/kg/min prevented fibrillation during reperfusion in 5 out of 6 animals.

IT 129045-18-7P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. of, as potassium channel activator)

L10 ANSWER 13 OF 21 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989:454266 HCAPLUS
 DOCUMENT NUMBER: 111:54266

TITLE: Changes in membrane polar lipids associated with bud break in apple induced by nitroguanidines
AUTHOR(S): Wang, S. Y.; Faust, M.
CORPORATE SOURCE: Beltsville Agric. Res. Cent., Agric. Res. Serv., Beltsville, MD, 20705, USA
SOURCE: J. Plant Growth Regul. (1989), 8(2), 153-61
CODEN: JPGRDI; ISSN: 0721-7595
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The predominant lipids in membranes obtained from apple buds were galacto- and phospholipids. The major galactolipid components in apple bud were monogalactosyl diglyceride (MGDG) and digalactosyl diglyceride (DGDG). Phosphatidylcholine (PC) and phosphatidylethanolamine (PE) were the major phospholipids in the apple buds. .alpha.-Linolenic acid (C 18:3) was the major fatty acid in MGDG, DGDG, and PC. Phosphatidylglycerol (PG) is the only lipid to contain significant amts. of palmitic acid (C 16:0) in the dormant buds. An increase in the galacto- and phospholipids and the ratio of the unsatd. fatty acids to the corresponding satd. fatty acids of the buds occurred as a result of induction by 1-(3,5-dichlorophenyl)-3-nitroguanidine or 1-(.alpha.-ethylbenzyl)-3-nitroguanidine during bud break. The identities of fatty acids in apple buds were confirmed by gas chromatog.-mass spectrometry.
IT **93070-74-7**, 1-(.alpha.-Ethylbenzyl)-3-nitroguanidine
RL: BIOL (Biological study)
(budbreak in apple induced by, membrane for lipids in relation to)

L10 ANSWER 14 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:454265 HCAPLUS
DOCUMENT NUMBER: 111:54265
TITLE: Nitroguanidines induce bud break and change sterol content in apple
AUTHOR(S): Wang, S. Y.; Faust, M.
CORPORATE SOURCE: Beltsville Agric. Res. Cent., Agric. Res. Serv., Beltsville, MD, 20705, USA
SOURCE: J. Plant Growth Regul. (1989), 8(2), 143-51
CODEN: JPGRDI; ISSN: 0721-7595
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Bud break in apple (*Malus domestica* cv. Golden Delicious) was induced by 1-(3,5-dichlorophenyl)-3-nitroguanidine (I) or 1-(.alpha.-ethylbenzyl)-3-nitroguanidine (II). The optimum dose was 1000 .mu.M. An increase in bud fresh wt., dry wt., and length was more prominent in buds treated with II than in those treated with I. The sterol compositional changes during bud break induced by I were similar to those induced by II. .beta.-Sitosterol and sitosteryl ester were the predominant sterols. The amts. of these sterols increased immediately after dormancy was broken and then declined. A decrease in the percentage of the sitosterol and sitosteryl ester was accompanied by an increase in campesterol and stigmasterol at the beginning of rapid growth. A decrease in the ratio of free sterols to phospholipids and an increase in the ratio of campesterol + stigmasterol to sitosterol upon breaking dormancy occurred in apple buds induced by I or II. In contrast, 1-(m-methoxybenzyl)-3-nitroguanidine did not affect breaking of apple bud dormancy and also had no effect on changes in sterol content. The sterols in apple buds were confirmed by gas chromatog.-mass spectrometry.
IT **93070-74-7**
RL: BIOL (Biological study)
(budbreak and sterol content in apple response to)

L10 ANSWER 15 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:134852 HCAPLUS
DOCUMENT NUMBER: 110:134852
TITLE: The cyanamido moiety as a novel leaving group

AUTHOR(S): Reiter, Jozsef
CORPORATE SOURCE: EGIS Pharm., Budapest, H-1475, Hung.
SOURCE: Org. Prep. Proced. Int. (1988), 20(5), 465-74
CODEN: OPPIAK; ISSN: 0030-4948

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:134852

AB Substitution of N-cyanoisothioureas, e.g. RNHC(SMe):NCN (R = 4-R1C6H4CHR2; R1 = H, Cl, R2 = H, Me; R1 = H, R2 = Et) with ethanolamines gave mixts. of guanidine derivs. RNHC(NHCH2CH2OH):NCN (I) and isothiourea derivs. RNHC(SMe):NCH2CH2OH (II). In general, non-protic solvents and low temp. favor the formation of derivs. I and protic solvents and higher temps. promote the formation of II.

IT 119197-81-8P 119197-83-0P 119197-87-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L10 ANSWER 16 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1988:506446 HCAPLUS
DOCUMENT NUMBER: 109:106446
TITLE: Modeling of a plant growth regulant
AUTHOR(S): Lutz, Albert W.; Rodaway, Shirley J.
CORPORATE SOURCE: Agric. Res. Div., Am. Cyanamid Co., Princeton, NJ, 08540, USA
SOURCE: Proc. Plant Growth Regul. Soc. Am. (1986), 13th, 136-53
CODEN: PPGRDG; ISSN: 0731-1664

DOCUMENT TYPE: Journal
LANGUAGE: English

AB An attempt was made to probe the receptor-site by comparing biol. activities of a new class of synthetic cytokinins, the benzylnitroguanidines. A series of .alpha.-substituted benzylnitroguanidines was used to model some requirements of the cytokinin receptor-site. When a plot of .alpha. vs. .pi. consts. for small substituents on the benzyl ring was unable to account for differences in biol. activities of various compds., it became evident that spatial constraints might predominate in certain regions of the receptor. Alkyl substitutions on the .alpha.-carbon were used to investigate the spatial properties of the receptor by steric mapping. The shape and length of the alkyl substituent and the chirality of the .alpha.-carbon were crit. to activity. Space around the N1-nitrogen was probably restricted as this atom could not be substituted without loss of activity. There was also a limitation in the overall length of the mol. along one axis. As hypothesized, the low energy conformation of benzyladenine, a very potent synthetic cytokinin, and of benzylnitroguanidine were superimposable.

IT 116179-09-0 116179-10-3
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BIOL (Biological study); USES (Uses)
(plant growth regulating activity of, structure in relation to)

L10 ANSWER 17 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1987:133816 HCAPLUS
DOCUMENT NUMBER: 106:133816
TITLE: Preparation of nitro- and cyanoguanidines as selective pre-emergence herbicides, desiccants, and plant defoliants

INVENTOR(S): Arotin, Robert L.; Walworth, Bryant L.; Marini, Michele E.

PATENT ASSIGNEE(S): American Cyanamid Co., USA

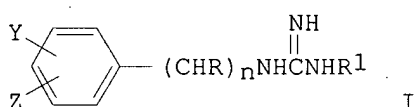
SOURCE: U.S., 13 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4639268	A	19870127	US 1985-759703	19850729
EP 210446	A2	19870204	EP 1986-108830	19860628
EP 210446	A3	19870513		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
BR 8603570	A	19870304	BR 1986-3570	19860728
US 5175365	A	19921229	US 1991-714909	19910614
PRIORITY APPLN. INFO.:			US 1985-759703	19850729
			US 1986-900940	19860827
			US 1989-337517	19890413
OTHER SOURCE(S):		CASREACT 106:133816		
GI				



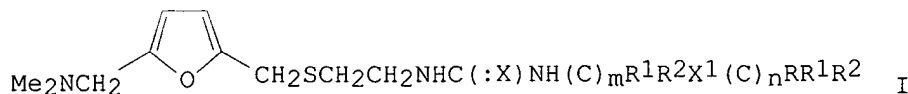
AB Guanidines I (R = allyl, CF₃, CH₂OMe, alkyl, hydroxyalkyl, methoxyalkyl; R₁ = NO₂, CN; Y = H, OH, alkoxy, halo; Z = H, halo, Me, CF₃; n = 0, 1) are prepd. as pre-emergence herbicides, desiccants, and defoliants. A mixt. of PhCH₂EtNH₂, MeN(NO)C(:NH)NHNO₂, and EtOH was stirred for 18 h to give PhCH₂EtNHC(:NH)NHNO₂ (II). Cotton was defoliated by 267 ppm II in the leaf-dip bioassay.

IT 93070-59-8P 93070-61-2P 93070-70-3P
 93070-72-5P 93070-73-6P 93070-74-7P
 93070-75-8P 93070-76-9P 93070-77-0P
 93070-78-1P 93070-79-2P 93070-80-5P
 107356-53-6P 107356-54-7P 107356-55-8P
 107356-56-9P 107356-57-0P 107356-58-1P
 107356-59-2P 107356-60-5P 107356-61-6P
 107356-62-7P 107356-63-8P 107356-64-9P
 107356-65-0P 107356-66-1P 107356-68-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as herbicide and desiccant and defoliant)

L10 ANSWER 18 OF 21 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1986:406402 HCAPLUS
 DOCUMENT NUMBER: 105:6402
 TITLE: Furan derivatives having antiulcer activity
 INVENTOR(S): De Vincentiis, Leonardo
 PATENT ASSIGNEE(S): Ausonia Farmaceutici S.r.l., Italy
 SOURCE: Eur. Pat. Appl., 62 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 164040	A2	19851211	EP 1985-106462	19850524
EP 164040	A3	19870701		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
ES 543448	A1	19870501	ES 1985-543448	19850523
US 4634701	A	19870106	US 1985-738668	19850528

AU 8543185 A1 19851212 AU 1985-43185 19850531
 JP 61017578 A2 19860125 JP 1985-122358 19850605
 ZA 8504301 A 19860129 ZA 1985-4301 19850606
 PRIORITY APPLN. INFO.: IT 1984-21273 19840606
 GI



AB The title compds. I [X = CHNO₂, NCN; X₁ = CH₂, O, S, bond; R = (un)substituted aryl, arylbicyclyl, -polycyclyl; R₁, R₂ = H, C1-4 alkyl; m, n = 0-4] having antiulcer activity (no data) were prepd. Thus, 1-nitro-2-[4-(2-methoxyethoxy)benzylamino]-2-[(2-mercaptoethyl)amino]ethane prepd. from 4-(2-hydroxyethoxy)benzyl alc. in 4 steps, was reacted with 2-[(dimethylamino)methyl]-5-(chloromethyl)furan to give N-[2-[[[5-[(dimethylamino)methyl]-2-furanyl]thio]ethyl]-N'-[4-(2-methoxyethoxy)benzyl]-2-nitro-1,1-ethenediamine.

IT **102196-47-4P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as antiulcer agent)

L10 ANSWER 19 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1984:610775 HCAPLUS
 DOCUMENT NUMBER: 101:210775
 TITLE: Substituted nitro- and cyanoguanidines and their use in increasing crop yields
 INVENTOR(S): Speltz, Laurine Mary; Walworth, Bryant Leonidas; Pavlista, Alexander Dimitri
 PATENT ASSIGNEE(S): American Cyanamid Co., USA
 SOURCE: Ger. Offen., 25 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3345281	A1	19840620	DE 1983-3345281	19831214
US 4594092	A	19860610	US 1983-551611	19831117
EP 113070	A1	19840711	EP 1983-112206	19831205
EP 113070	B1	19880113		
R: AT, BE, CH, FR, GB, IT, LI, NL, SE				
EP 189579	A1	19860806	EP 1985-116211	19831205
R: AT, BE, CH, FR, GB, IT, LI, NL, SE				
AT 31920	E	19880115	AT 1983-112206	19831205
FI 8304676	A	19840603	FI 1983-4676	19831219
DK 8305850	A	19840621	DK 1983-5850	19831219
AU 8322515	A1	19840628	AU 1983-22515	19831219
AU 565227	B2	19870910		
BR 8306966	A	19840724	BR 1983-6966	19831219
ZA 8309399	A	19840829	ZA 1983-9399	19831219
ES 528171	A1	19851116	ES 1983-528171	19831219
JP 59118757	A2	19840709	JP 1983-239067	19831220
HU 32554	O	19840828	HU 1983-4350	19831220
HU 195637	B	19880628		

DD 225988	A5	19850814	DD 1983-258234	19831220
ES 543758	A1	19860116	ES 1985-543758	19850531
ES 543756	A1	19861016	ES 1985-543756	19850531
US 4804780	A	19890214	US 1986-835847	19860303
AU 8775567	A1	19871022	AU 1987-75567	19870713
FI 8802004	A	19880428	FI 1988-2004	19880428
US 4944788	A	19900731	US 1988-278709	19881201

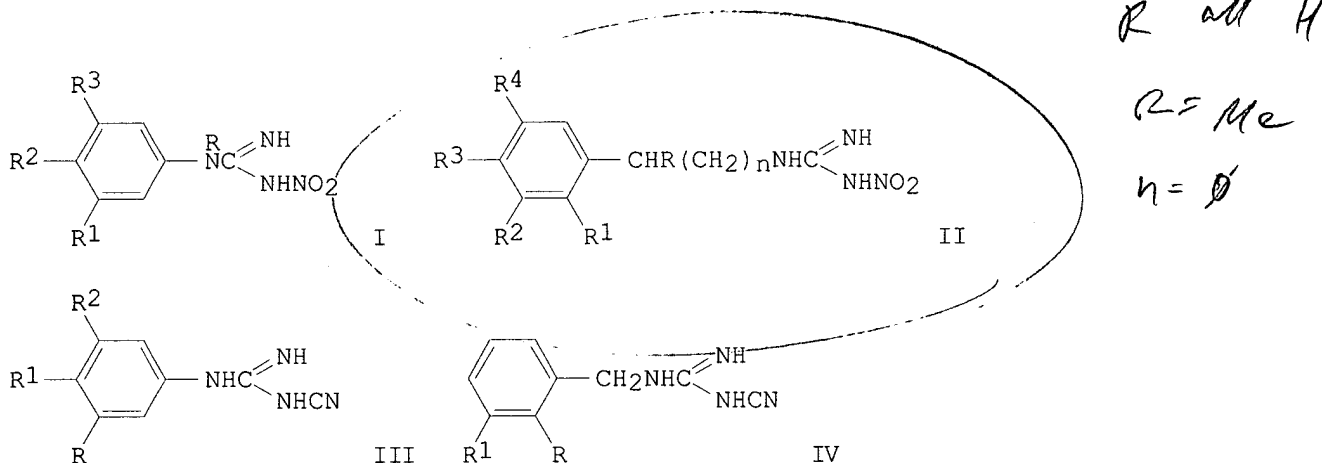
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US 1982-451698	19821220
US 1983-551611	19831117
EP 1983-112206	19831205
FI 1983-4676	19831219
US 1986-835847	19860303

OTHER SOURCE(S):

CASREACT 101:210775

GI



AB Title compds. (155 in all) [I (R = H, Me; R1 = halo, Me, MeS, etc.; R2 = H, Me, halo; R3 = H, Me, MeO, CF3, halo); II (R = H, Me, CF3, Et; R1 = H, F; R2 = H, OH, C1-4 alkoxy, etc.; R3 = H, F; R4 = H, F, Me, OMe; n = 0-2); III (R = Me, CF3, MeO, halo; R1 = OH, halo; R2 = H, Cl); IV (R = H, F; R1 = C1-4 alkyl or alkoxy, F)] were prep'd. by reaction of the appropriate amine with MeN(NO)N(:NH)NHNO2 or NaN(CN)2, and shown via extensive test data to stimulate the growth of a no. of desirable plants, e.g., rice.

IT 93070-58-7P 93070-59-8P 93070-61-2P
 93070-70-3P 93070-72-5P 93070-73-6P
 93070-74-7P 93070-75-8P 93070-76-9P
 93070-77-0P 93070-78-1P 93070-79-2P
 93070-80-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and plant growth stimulating activity of)

L10 ANSWER 20 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1980:51717 HCAPLUS

DOCUMENT NUMBER: 92:51717

TITLE: Adaptive least-squares method applied to
 structure-activity correlation of hypotensive
 N-alkyl-N''-cyano-N'-pyridylguanidines

AUTHOR(S): Moriguchi, Ikuo; Komatsu, Katsuichiro; Matsushita,
 Yasuo

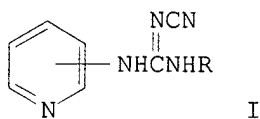
CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan
 SOURCE: J. Med. Chem. (1980), 23(1), 20-6

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB A method using an adaptive least-squares (ALS) technique was developed for the discrimination of ordered categorical data. The method (ALS method) has the advantages of simultaneously considering any no. of classes and of producing a single discriminant function which can place patterns in several classes. The ALS method was compared with linear discriminant anal. (LDA) in application to the problem of discriminating 3-class hypotensive therapeutic indexes of 76 N-alkyl-N''-cyano-N'-pyridylguanidines I (R = alkyl) using 9 descriptor variables. It was shown that the ALS method was superior and more stable in recognition and prediction. The structure-activity relation is discussed on the basis of discriminant functions formulated.

IT **67026-56-6**

RL: BIOL (Biological study)

(antihypertensive, statistical pattern recognition in relation to)

L10 ANSWER 21 OF 21 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1978:499710 HCAPLUS

DOCUMENT NUMBER: 89:99710

TITLE: Synthesis and hypotensive activity of
N-alkyl-N''-cyano-N'-pyridylguanidines

AUTHOR(S): Petersen, Hans Joergen; Nielsen, C. Kaergaard;
Arrigoni-Martelli, E.

CORPORATE SOURCE: Dep. Pharmacol., Leo Pharm. Prod., Ballerup, Den.

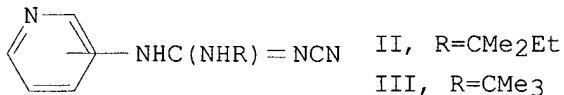
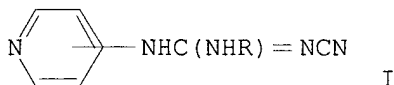
SOURCE: J. Med. Chem. (1978), 21(8), 773-81

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB The synthesis of 76 title compds. I (R = H, alkyl, CH₂CH₂OEt, etc.), prepd. as potential bioisosteres of hypotensive N-alkyl-N'-pyridylthioureas, is described. In hypertensive rats and dogs, II [60559-98-0] was 200 times more potent than the corresponding thiourea. In comparison with guancydine [1113-10-6], a 150-fold increase of potency in spontaneously hypertensive rats was obtained with II and its tert-Bu analog III [60559-94-6]. Apparently, the activity is due to direct vascular relaxation. Structure-activity relations are discussed.

IT **67026-56-6P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)
(prepn. and antihypertensive activity of)

=> d stat que 123 nos

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L1          STR
L3          92 SEA FILE=REGISTRY SSS FUL L1
L4          259 SEA FILE=REGISTRY ABB=ON PLU=ON THIDIAZURON OR DIURON? OR
            ETHEPHON? OR PROTOPORPNYRIN? OR PPO OR ACIFLUORFEN? OR FOMESA?
            OR NITROFEN? OR OXYFLUORFEN? OR OXIDIAZON OR LS 82556/CN OR S
            23142/CN OR M AND B 39279/CN
L5          1 SEA FILE=REGISTRY ABB=ON PLU=ON "M AND B 39279"/CN
L6          260 SEA FILE=REGISTRY ABB=ON PLU=ON L4 OR L5
L7          1001 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR PROTOPORPHYR?
L8          279 SEA FILE=REGISTRY ABB=ON PLU=ON NITROGUANIDIN?
L9          2409 SEA FILE=REGISTRY ABB=ON PLU=ON CYANO GUANIDIN?
L10         21 SEA FILE=HCAPLUS ABB=ON PLU=ON L3
L11         0 SEA FILE=REGISTRY ABB=ON PLU=ON B 39279/CN
L12         0 SEA FILE=HCAPLUS ABB=ON PLU=ON L11
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L15         1 SEA FILE=REGISTRY ABB=ON PLU=ON LS 82556/CN
L16         16 SEA FILE=HCAPLUS ABB=ON PLU=ON L15
L17         43124 SEA FILE=HCAPLUS ABB=ON PLU=ON L7 OR THIDIAZURON OR DIURON?
            OR ETHEPHON? OR PROTOPORPHYR? OR PPO OR ACIFLUORFEN? OR
            FOMESA? OR NITROFEN? OR OXYFLUORFEN? OR OXIDIAZON OR L16 OR
            L14 OR M AND L12
L19         14440 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR L9 OR NITROGUANIDIN? OR
            CYANO GUANIDIN?
L21         215 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 (L) L17
L22         3 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (HERBICID? OR
            DEFOLIAT?)
L23         3 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 NOT L10

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L23 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:499837 HCAPLUS
DOCUMENT NUMBER: 127:216295
TITLE: The photoreaction center of Rhodobacter sphaeroides. A
        "biosensor protein" for the determination of
        photosystem-II herbicides?
AUTHOR(S): Peters, Heinz; Schmidt-Dannert, Claudia; Schmid, Rolf
        D.
CORPORATE SOURCE: Institute Technical Biochemistry, University
        Stuttgart, Stuttgart, D-70569, Germany
SOURCE: Materials Science & Engineering, C: Biomimetic
        Materials, Sensors and Systems (1997), C4(4), 227-232
        CODEN: MSCEEE; ISSN: 0928-4931
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

```

AB According to a European directive for drinking water (1980), pesticides are tolerable only in extremely low concn. of 0.1 $\mu\text{g/L}$. An alternative receptor, photosystem-II (PSII), was presented which interacts with photosystem-II **herbicides**. The structure and function were reviewed of the photosynthetic reaction center (RC) from Rhodobacter sphaeroides and its application for the detection of PSII **herbicides** using different biosensor formats. An assay based on photobleaching of RC, a displacement assay based on bacterial luciferase as detection system, and a grating coupler device for measuring the amt. of PSII **herbicides** was developed. It was not sensitive enough

to comply to the detection limits set by EU regulation. Both the sensitivity and selectivity of RC might be increased by modification of the RC using genetic engineering techniques.

IT 330-54-1 556-88-7

RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(photoreaction center of Rhodobacter sphaeroides is biosensor protein for detn. of photosystem II **herbicides**)

L23 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1984:206386 HCAPLUS

DOCUMENT NUMBER: 100:206386

TITLE: Effect of **diuron** and nitrosoguanidine on the heritability of the chloroplast gene in Chlamydomonas

AUTHOR(S): Khakimov, Ya. I.; Khalilov, S. Kh.

CORPORATE SOURCE: Tashk. S-kh. Inst., Fergana, USSR

SOURCE: Uzb. Biol. Zh. (1984), (1), 21-3

CODEN: UZBZAZ; ISSN: 0042-1685

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Hybridization of (+) and (-) strains of C. reinhardtii carrying streptomycin resistance chloroplast gene produced few exclusive zygotes completely devoid of the antibiotic resistance determinant. Addn. of **diuron (herbicide)** or N-nitroso-N-nitroso-guanidine markedly increased the frequency of formation of exclusive zygotes, indicating the high sensitivity of the gene to the mutagens. Thus, C. reinhardtii may be a convenient model for studies involving the genetic effects of **herbicides** and mutagens.

IT 70-25-7 330-54-1

RL: BIOL (Biological study)

(streptomycin resistance gene response to, in chloroplast of Chlamydomonas reinhardtii)

L23 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1967:18253 HCAPLUS

DOCUMENT NUMBER: 66:18253

TITLE: Toxicity of new pesticides and sewage treatment agents to fish

AUTHOR(S): Nehring, Dietwart

CORPORATE SOURCE: Deut. Akad. Landwirtschaftswiss., Berlin, Ger.

SOURCE: Z. Fisch. Deren Hilfswiss. (1966), 14(1-2), 1-8

CODEN: ZFDHA8

DOCUMENT TYPE: Journal

LANGUAGE: German

AB Substances used as **herbicides**, insecticides, fungicides, molluscicides, and in the treatment of sewage (e.g. flotation agents) were tested for toxicity on several kinds of fish. The fungicides tried were almost all highly toxic; **herbicides** and pesticides often acted as nerve poisons; some sewage treatment agents were non-toxic. Dimethylamine, because of high basicity, eroded the gills and mucous membranes of fish.

IT 330-54-1 461-58-5

RL: PRP (Properties)

(toxicity of, to fish)

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E1 THROUGH E3 ASSIGNED

=> select hit rn 123 3

E4 THROUGH E5 ASSIGNED

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FILE 'REGISTRY' ENTERED AT 13:28:00 ON 28 SEP 2002
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provided by InfoChem.

STRUCTURE FILE UPDATES: 27 SEP 2002 HIGHEST RN 456527-32-5
DICTIONARY FILE UPDATES: 27 SEP 2002 HIGHEST RN 456527-32-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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=> s el-e5
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        (330-54-1/RN)
      1 556-88-7/BI
        (556-88-7/RN)
      1 70-25-7/BI
        (70-25-7/RN)
      1 330-54-1/BI
        (330-54-1/RN)
      1 461-58-5/BI
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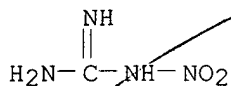
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L24 ANSWER 1 OF 4  REGISTRY  COPYRIGHT 2002 ACS
RN   556-88-7  REGISTRY
CN   Guanidine, nitro- (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   .alpha.-Nitroguanidine
CN   .beta.-Nitroguanidine
CN   1-Nitroguanidine
CN   2-Nitroguanidine
CN   N''-Nitroguanidine
CN   N1-Nitroguanidine
CN   Nitroguanidine
CN   NQ
CN   Picrite
CN   Picrite (propellant)
FS   3D CONCORD
MF   C H4 N4 O2
CI   COM
LC   STN Files:  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
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BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*, EMBASE, GMELIN*, HODOC*,
 HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA,
 PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2,
 USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

896 REFERENCES IN FILE CA (1962 TO DATE)

10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

897 REFERENCES IN FILE CAPLUS (1962 TO DATE)

10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:204806

REFERENCE 2: 137:204805

REFERENCE 3: 137:187797

REFERENCE 4: 137:171938

REFERENCE 5: 137:127186

REFERENCE 6: 137:95925

REFERENCE 7: 137:81091

REFERENCE 8: 137:81089

REFERENCE 9: 137:65357

REFERENCE 10: 137:35156

L24 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 461-58-5 REGISTRY

CN Guanidine, cyano- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Cyanoguanidine

CN 2-Cyanoguanidine

CN 200X

CN ACR-H 3636

CN ACR-H 3636AS

CN Adeka HT 2844

CN Ajicure AH 150

CN Amicure 3809

CN Amicure AH 150

CN Amicure AH 154

CN Amicure AH 162

CN Amicure CG 1200

CN Amicure CG 140

CN Amicure CG 1400

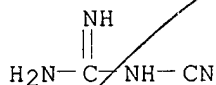
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 CN Bakelite VE 2560
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 CN CG 1200
 CN CG 1400
 CN CGNA
 CN Cyanoguanidine
 CN DCD
 CN DCDA
 CN Dicy
 CN Dicy 100S
 CN DICY 7
 CN DICY 70
 CN DICY 7A
 CN DICY-FP
 CN Dicyandiamide
 CN Dicyanex 1400B
 CN Dicyanex 200
 CN Dicyanex 200X
 CN Dicyanodiamide
 CN Didin
 CN Dyhard 100
 CN Dyhard 100S
 CN Dyhard 100SF
 CN Dyhard RU 100
 CN Dyhard SF
 CN EH 3636AS
 CN EH 3636S
 CN Epicure DICY
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 CN Epicure DICY 7
 CN Epicure DICY 7A
 CN Erisys DDA 10

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY

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 187414-06-8, 205265-14-1
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 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*,
 EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
 MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE,
 TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5190 REFERENCES IN FILE CA (1962 TO DATE)
 617 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5196 REFERENCES IN FILE CAPLUS (1962 TO DATE)

18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:203055
 REFERENCE 2: 137:203035
 REFERENCE 3: 137:202583
 REFERENCE 4: 137:202361
 REFERENCE 5: 137:202352
 REFERENCE 6: 137:202073
 REFERENCE 7: 137:202064
 REFERENCE 8: 137:187410
 REFERENCE 9: 137:187159
 REFERENCE 10: 137:186648

L24 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 330-54-1 REGISTRY

CN Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8CI)

OTHER NAMES:

CN 1,1-Dimethyl-3-(3,4-dichlorophenyl)urea

CN 1-(3,4-Dichlorophenyl)-3,3-dimethylurea

CN 3-(3,4-Dichlorophenyl)-1,1-dimethylurea

CN DCMC

CN DCMU

CN DCMU 99

CN Diuron

CN Diuron Nortox

CN DMU

CN DP Hardener 95

CN Duran

CN Dyhard UR 200

CN Herbatox

CN HRT Dinron

CN HW 920

CN Karmax

CN Karmex

CN Karmex D

CN Karmex Diuron Herbicide

CN Karmex DW

CN Lucenit

CN Marmer

CN N'-(3,4-Dichlorophenyl)-N,N-dimethylurea

CN N,N-Dimethyl-N'-(3,4-dichlorophenyl)urea

CN N-(3,4-Dichlorophenyl)-N',N'-dimethylurea

CN Preventol A 6

CN Telvar Diuron Weed Killer

FS 3D CONCORD

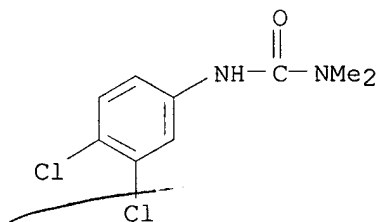
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MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA,
 ULIDAT, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 59 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 4748 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 58 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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 REFERENCE 3: 137:198434
 REFERENCE 4: 137:182488
 REFERENCE 5: 137:182487
 REFERENCE 6: 137:182399
 REFERENCE 7: 137:181089
 REFERENCE 8: 137:174403
 REFERENCE 9: 137:174358
 REFERENCE 10: 137:169074

L24 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 70-25-7 REGISTRY

CN Guanidine, N-methyl-N'-nitro-N-nitroso- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Guanidine, 1-methyl-3-nitro-1-nitroso- (6CI, 8CI)

OTHER NAMES:

CN 1-Methyl-1-nitroso-2-nitroguanidine

CN 1-Methyl-1-nitroso-3-nitroguanidine

CN 1-Methyl-3-nitro-1-nitrosoguanidine

CN 1-Nitroso-3-nitro-1-methylguanidine

CN Methylnitronitrosoguanidine

CN MNNG

CN N-Methyl-N'-nitro-N-nitrosoguanadine

CN N-Methyl-N'-nitro-N-nitrosoguanidine

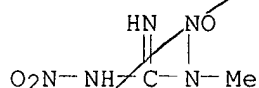
CN N-Methyl-N-nitroso-N'-nitroguanidine

CN N-Methyl-N1-nitro-N-nitrosoguanidine

CN N-Nitroso-N'-nitro-N-methylguanidine

CN N-Nitroso-N-methyl-N'-nitroguanidine

CN N-Nitroso-N-methylnitroguanidine
 CN Nitrosoguanidine
 CN NSC 9369
 FS 3D CONCORD
 DR 100234-53-5
 MF C2 H5 N5 O3
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DRUGU,
 EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*,
 MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3882 REFERENCES IN FILE CA (1962 TO DATE)
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3886 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 30 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:196897
 REFERENCE 2: 137:185837
 REFERENCE 3: 137:163347
 REFERENCE 4: 137:154121
 REFERENCE 5: 137:138771
 REFERENCE 6: 137:129407
 REFERENCE 7: 137:106325
 REFERENCE 8: 137:106067
 REFERENCE 9: 137:104285
 REFERENCE 10: 137:92760

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1	RN	288076-62-0	REGISTRY
2	RN	288076-61-9	REGISTRY
3	RN	288076-32-4	REGISTRY
4	RN	232600-75-8	REGISTRY
5	RN	183119-59-7	REGISTRY
6	RN	172885-03-9	REGISTRY
DR	155418-81-8		
7	RN	170793-47-2	REGISTRY
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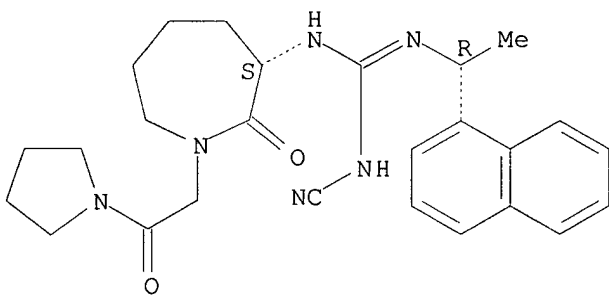
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15	RN	158943-20-5	REGISTRY
16	RN	158943-14-7	REGISTRY
17	RN	158943-13-6	REGISTRY
18	RN	158943-12-5	REGISTRY
19	RN	158943-11-4	REGISTRY
20	RN	158943-10-3	REGISTRY
21	RN	158943-09-0	REGISTRY
22	RN	158943-08-9	REGISTRY
23	RN	158943-07-8	REGISTRY
24	RN	158943-06-7	REGISTRY
25	RN	158943-05-6	REGISTRY
26	RN	158943-04-5	REGISTRY
27	RN	158943-03-4	REGISTRY
28	RN	158942-97-3	REGISTRY
29	RN	158942-96-2	REGISTRY
30	RN	158942-94-0	REGISTRY
31	RN	158942-93-9	REGISTRY
32	RN	158942-92-8	REGISTRY
33	RN	158942-91-7	REGISTRY
34	RN	158942-89-3	REGISTRY
35	RN	158942-88-2	REGISTRY
36	RN	158942-87-1	REGISTRY
37	RN	158942-86-0	REGISTRY
38	RN	158942-85-9	REGISTRY
39	RN	158942-82-6	REGISTRY
40	RN	158942-81-5	REGISTRY
41	RN	155342-86-2	REGISTRY
42	RN	155342-84-0	REGISTRY
43	RN	155342-83-9	REGISTRY
44	RN	155342-82-8	REGISTRY
45	RN	155342-81-7	REGISTRY
46	RN	155342-80-6	REGISTRY
47	RN	155342-79-3	REGISTRY
48	RN	155342-78-2	REGISTRY
49	RN	155342-74-8	REGISTRY
50	RN	155342-73-7	REGISTRY
51	RN	155342-72-6	REGISTRY
52	RN	155342-66-8	REGISTRY
53	RN	155342-64-6	REGISTRY
54	RN	155342-62-4	REGISTRY
55	RN	155342-61-3	REGISTRY
56	RN	155342-60-2	REGISTRY
57	RN	129045-18-7	REGISTRY
58	RN	119197-87-4	REGISTRY
59	RN	119197-83-0	REGISTRY
60	RN	119197-81-8	REGISTRY
61	RN	116179-10-3	REGISTRY
62	RN	116179-09-0	REGISTRY
63	RN	107356-68-3	REGISTRY
64	RN	107356-66-1	REGISTRY
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73	RN	107356-57-0	REGISTRY
74	RN	107356-56-9	REGISTRY
75	RN	107356-55-8	REGISTRY
76	RN	107356-54-7	REGISTRY
77	RN	107356-53-6	REGISTRY
78	RN	102196-47-4	REGISTRY
79	RN	93070-80-5	REGISTRY
80	RN	93070-79-2	REGISTRY
81	RN	93070-78-1	REGISTRY
82	RN	93070-77-0	REGISTRY
83	RN	93070-76-9	REGISTRY
84	RN	93070-75-8	REGISTRY
85	RN	93070-74-7	REGISTRY
86	RN	93070-73-6	REGISTRY
87	RN	93070-72-5	REGISTRY
88	RN	93070-70-3	REGISTRY
89	RN	93070-61-2	REGISTRY
90	RN	93070-59-8	REGISTRY
91	RN	93070-58-7	REGISTRY
92	RN	67026-56-6	REGISTRY

=> d ide can 13 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 92

L3 ANSWER 1 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 288076-62-0 REGISTRY
 CN Pyrrolidine, 1-[[[(3S)-3-[[[(cyanoamino)[[(1R)-1-(1-naphthalenyl)ethyl]amino]methylene]amino]hexahydro-2-oxo-1H-azepin-1-yl]acetyl]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C26 H32 N6 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

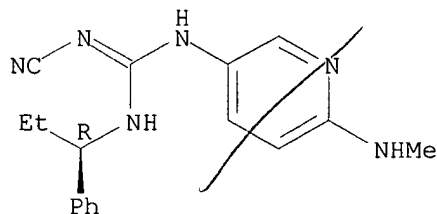
1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 133:164010

L3 ANSWER 5 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 183119-59-7 REGISTRY
 CN Guanidine, N-cyano-N'-[6-(methylamino)-3-pyridinyl]-N''-(1-phenylpropyl)-, (R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH

MF C17 H20 N6
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.
 Double bond geometry unknown.



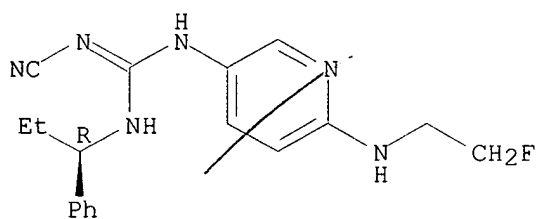
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

L3 ANSWER 10 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 170793-43-8 REGISTRY
 CN Guanidine, N-cyano-N'-[6-[(2-fluoroethyl)amino]-3-pyridinyl]-N''-(1-phenylpropyl)-, (R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C18 H21 F N6
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.
 Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

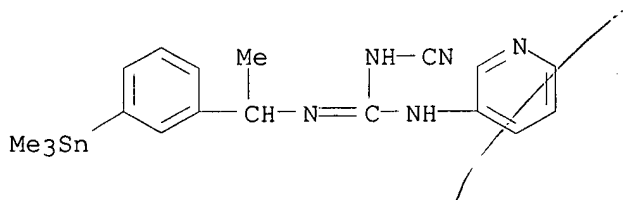
2 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:288180

REFERENCE 2: 124:8633

L3 ANSWER 15 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 158943-20-5 REGISTRY
 CN Guanidine, N-cyano-N'-3-pyridinyl-N''-[1-[3-(trimethylstannyl)phenyl]ethyl]- (9CI) (CA INDEX NAME)
 MF C18 H23 N5 Sn
 SR CA

LC STN Files: CA, CAPLUS, USPATFULL



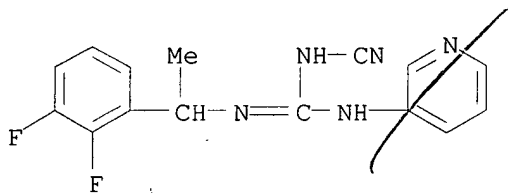
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 20 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158943-10-3 REGISTRY
CN Guanidine, N-cyano-N'-[1-(2,3-difluorophenyl)ethyl]-N''-3-pyridinyl- (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 F2 N5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

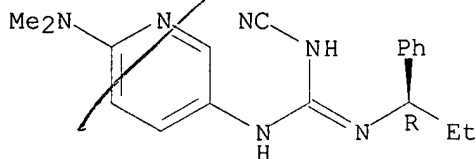
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 25 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158943-05-6 REGISTRY
CN Guanidine, N-cyano-N'-[6-(dimethylamino)-3-pyridinyl]-N''-(1-phenylpropyl)-
, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H22 N6
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.

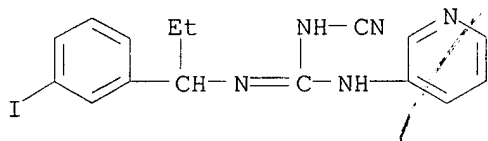


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 121:280546

L3 ANSWER 30 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158942-94-0 REGISTRY
CN Guanidine, N-cyano-N'-[1-(3-iodophenyl)propyl]-N''-3-pyridinyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 I N5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

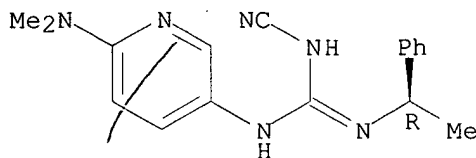
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 35 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158942-88-2 REGISTRY
CN Guanidine, N-cyano-N'-[6-(dimethylamino)-3-pyridinyl]-N''-(1-phenylethyl)-, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C17 H20 N6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.
Double bond geometry unknown.



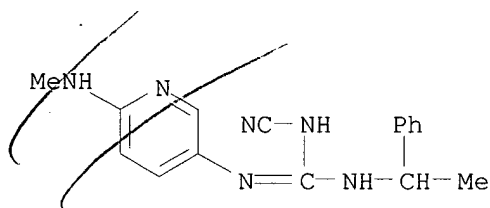
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 40 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 158942-81-5 REGISTRY
CN Guanidine, N-cyano-N'-[6-(methylamino)-3-pyridinyl]-N''-(1-phenylethyl)-
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H18 N6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



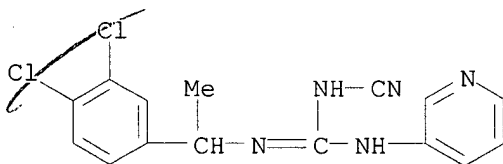
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2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

L3 ANSWER 45 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 155342-81-7 REGISTRY
CN Guanidine, N-cyano-N'-[1-(3,4-dichlorophenyl)ethyl]-N''-3-pyridinyl- (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 Cl2 N5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

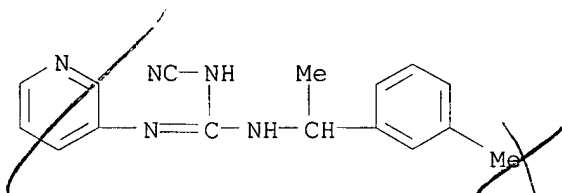
REFERENCE 1: 131:111152

REFERENCE 2: 125:300837

REFERENCE 3: 121:280546

REFERENCE 4: 120:323269

L3 ANSWER 50 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 155342-73-7 REGISTRY
 CN Guanidine, N-cyano-N'-[1-(3-methylphenyl)ethyl]-N''-3-pyridinyl- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H17 N5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

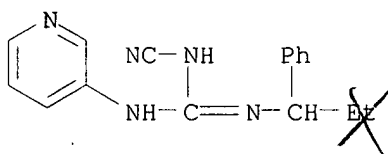
3 REFERENCES IN FILE CA (1962 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:300837

REFERENCE 2: 121:280546

REFERENCE 3: 120:323269

L3 ANSWER 55 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 155342-61-3 REGISTRY
 CN Guanidine, N-cyano-N'-(1-phenylpropyl)-N''-3-pyridinyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN PNU 94750
 FS 3D CONCORD
 MF C16 H17 N5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1962 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

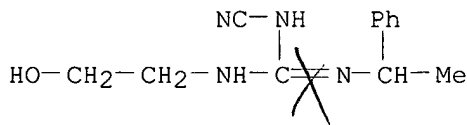
REFERENCE 1: 128:149199

REFERENCE 2: 125:300837

REFERENCE 3: 121:280546

REFERENCE 4: 120:323269

L3 ANSWER 60 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 119197-81-8 REGISTRY
 CN Guanidine, N-cyano-N'-(2-hydroxyethyl)-N''-(1-phenylethyl)- (9CI) (CA INDEX NAME)
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 MF C12 H16 N4 O
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

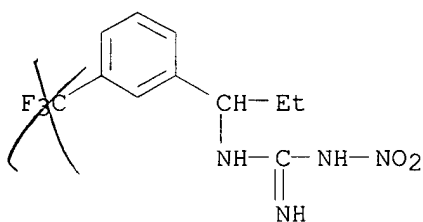


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 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 110:134852

L3 ANSWER 65 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 107356-65-0 REGISTRY
 CN Guanidine, N-nitro-N'-[1-[3-(trifluoromethyl)phenyl]propyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C11 H13 F3 N4 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

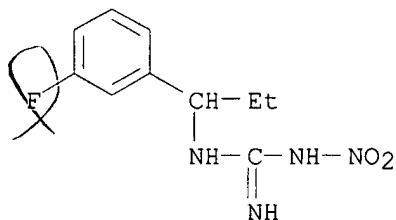


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

L3 ANSWER 70 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 107356-60-5 REGISTRY
 CN Guanidine, N-[1-(3-fluorophenyl)propyl]-N'-nitro- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C10 H13 F N4 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



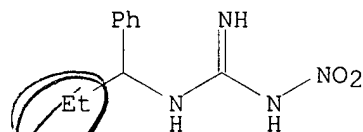
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

L3 ANSWER 75 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 107356-55-8 REGISTRY
CN Guanidine, N-nitro-N'-(1-phenylpropyl)-, (-)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C10 H14 N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Rotation (-).

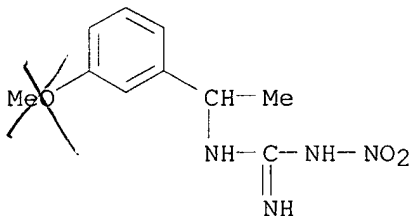


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

L3 ANSWER 80 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 93070-79-2 REGISTRY
CN Guanidine, N-[1-(3-methoxyphenyl)ethyl]-N'-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H14 N4 O3
LC STN Files: CA, CAPLUS, USPATFULL



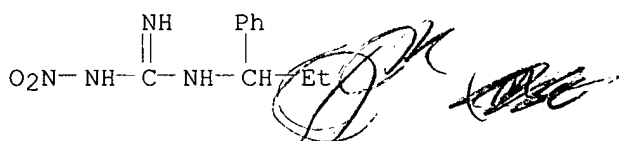
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2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

REFERENCE 2: 101:210775

L3 ANSWER 85 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 93070-74-7 REGISTRY
CN Guanidine, N-nitro-N'-(1-phenylpropyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-(.alpha.-Ethylbenzyl)-3-nitroguanidine
FS 3D CONCORD
MF C10 H14 N4 O2
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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5 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 119:111154

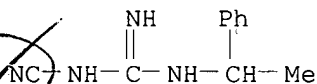
REFERENCE 2: 111:54266

REFERENCE 3: 111:54265

REFERENCE 4: 106:133816

REFERENCE 5: 101:210775

L3 ANSWER 90 OF 92 REGISTRY COPYRIGHT 2002 ACS
RN 93070-59-8 REGISTRY
CN Guanidine, N-cyano-N'-(1-phenylethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H12 N4
LC STN Files: CA, CAPLUS, USPATFULL



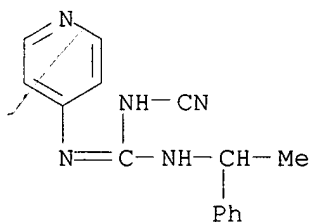
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:133816

REFERENCE 2: 101:210775

L3 ANSWER 92 OF 92 REGISTRY COPYRIGHT 2002 ACS
 RN 67026-56-6 REGISTRY
 CN Guanidine, N-cyano-N'-(1-phenylethyl)-N''-4-pyridinyl- (9CI) (CA INDEX
 NAME)
 FS 3D CONCORD
 MF C15 H15 N5
 LC STN Files: BEILSTEIN*, CA, CAPLUS, RTECS*
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 92:51717
 REFERENCE 2: 89:99710